

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

What is claimed is:

1. A reshapable hair styling composition comprising at least one acrylic copolymer comprising:

(a) units derived from at least one monomer chosen from (meth)acrylate esters of C_4 to C_{18} straight and branched chain alkyl alcohols,

(b) units derived from at least one monomer chosen from (meth)acrylate esters of saturated and unsaturated cyclic alcohols containing 6 to 20 carbon atoms,

(c) optionally units derived from at least one monomer chosen from hydrophilic monomers, and

(d) optionally units derived from at least one monomer other than (a), (b), and (c) monomers,

wherein said composition provides a reshapable effect.

2. A reshapable hair styling composition comprising at least one acrylic copolymer comprising:

(a) from about 10 to about 85 weight percent of units derived from at least one monomer chosen from (meth)acrylate esters of C_4 to C_{18} straight and branched chain alkyl alcohols,

(b) from about 5 to about 70 weight percent of units derived from at least one monomer chosen from (meth)acrylate esters of saturated and unsaturated cyclic alcohols containing 6 to 20 carbon atoms,

(c) from 0 to about 20 weight percent of units derived from at least one

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

monomer chosen from hydrophilic monomers, and

(d) optionally units derived from at least one monomer other than (a), (b), and (c) monomers,

wherein said composition provides a reshapable effect.

3. The composition according to claim 2, wherein the composition further comprises a cosmetic vehicle appropriate for hair.

4. The composition according to claim 2, wherein said at least one (a) monomer is chosen from n-butyl (meth)acrylate, isobutyl acrylate, t-butyl (meth)acrylate, 2-methylbutyl (meth)acrylate, 2-ethylhexyl (meth)acrylate, n-octyl (meth)acrylate, isononyl (meth)acrylate, lauryl (meth)acrylate, and octadecyl (meth)acrylate.

5. The composition according to claim 2, wherein said at least one (b) monomer is chosen from bicyclo [2.2.1] heptyl (meth)acrylate, adamantyl (meth)acrylate, 3,5-dimethyladamantyl (meth)acrylate, isobornyl (meth)acrylate, tolyl (meth)acrylate, phenyl (meth)acrylate, t-butylphenyl (meth)acrylate, 2-naphthyl (meth)acrylate, benzyl methacrylate, cyclohexyl methacrylate, menthyl methacrylate, 3,3,5-trimethylcyclohexyl methacrylate, dicyclopentenyl (meth)acrylate, and 2-(dicyclopentenylloxy) ethyl (meth)acrylate.

6. The composition according to claim 2, wherein said at least one (c) monomers is chosen from (meth)acrylic acid and N-vinyl-2-pyrrolidone.
7. The composition according to claim 2, wherein said at least one acrylic copolymer is present in an amount ranging from about 0.1 to about 40 weight percent of the total weight percent of the composition.
8. The composition according to claim 7, wherein the amount of said at least one acrylic copolymer ranges from about 0.5 to about 15 weight percent.
9. The composition according to claim 2, wherein said at least one acrylic copolymer has a Tg ranging from about -100°C to about 15°C.
10. The composition according to claim 2, wherein the composition further comprises at least one additional polymer.
11. The composition according to claim 10, wherein said at least one additional polymer is chosen from anionic, cationic, amphoteric, nonionic, and zwitterionic polymers.
12. The composition according to claim 2, further comprising at least one other constituent, which is conventional in cosmetics, chosen from preservatives,

perfumes, UV filters, active haircare agents, plasticizers, anionic, cationic, amphoteric, nonionic, and zwitterionic surfactants, hair conditioning agents such as silicone fluids, fatty esters, fatty alcohol, long chain hydrocarbons, emollients, lubricants and penetrants such as lanolin compounds, protein hydrolysates, and other protein derivatives, dyes, tins, bleaches, reducing agents, pH adjusting agents, sunscreens, and thickening agents.

13. A composition according to claim 2, wherein said reshapable hair styling composition is in the form of a spray, aerosol, mousse, gel, or lotion.

14. An aerosol device comprising a vessel, which comprises:

(1) an aerosol composition, which provides a reshapable effect and comprises a liquid phase comprising at least one composition according to claim 2 and a propellant, and

(2) a dispenser.

15. A method of cosmetically treating hair, comprising applying to the hair before, during, or after shaping of a hairstyle of said hair a composition according to claim 2, wherein said composition provides a reshapable effect

16. A method of reshaping hair, comprising:

(1) applying to the hair before, during, or after the initial shaping of the

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

hairstyle of a composition according to claim 2,

wherein said composition provides a reshapable effect, and

(2) thereafter shaping the hairstyle at least once, wherein no additional composition or heat is added.

17. A reshapable hair styling composition comprising at least one acrylic copolymer comprising:

(a) from about 20 to about 80 weight percent of units derived from ethyl hexyl (meth)acrylate,

(b) from about 5 to about 65 weight percent of units derived from isobornyl acrylate, and

(c) from 1 to about 15 weight percent of units derived from (meth)acrylic acid, wherein the ratio of ethyl hexyl (meth)acrylate derived units to isobornyl acrylate derived units ranges from about 0.5:1 to about 6:1,

wherein said composition provides a reshapable effect.

18. The composition according to claim 17, wherein said at least one acrylic copolymer is present in an amount ranging from about 0.1 to about 40 weight percent of the total weight percent of the composition.

19. The composition according to claim 18, wherein the amount of said at least one acrylic copolymer ranges from about 0.5 to about 15 weight percent.

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

20. The composition according to claim 17, wherein said at least one acrylic copolymer has a Tg ranging from about -100°C to about 15°C.

21. The composition according to claim 17, wherein the composition further comprises at least one additional polymer.

22. The composition according to claim 21, wherein said at least one additional polymer is chosen from anionic, cationic, amphoteric, nonionic, and zwitterionic polymers.

23. The composition according to claim 17, further comprising at least one other constituent, which is conventional in cosmetics, chosen from preservatives, perfumes, UV filters, active haircare agents, plasticizers, anionic, cationic, amphoteric, nonionic, and zwitterionic surfactants, hair conditioning agents such as silicone fluids, fatty esters, fatty alcohol, long chain hydrocarbons, emollients, lubricants and penetrants such as lanolin compounds, protein hydrolysates, and other protein derivatives, dyes, tins, bleaches, reducing agents, pH adjusting agents, sunscreens, and thickening agents.

24. A composition according to claim 17, wherein said reshapable hair styling composition is in the form of a spray, aerosol, mousse, gel, or lotion.

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

25. An aerosol device comprising a vessel, which comprises:

- (1) an aerosol composition, which provides a reshapable effect and comprises a liquid phase comprising at least one composition according to claim 17 and a propellant, and
- (2) a dispenser.

26. A method of cosmetically treating hair, comprising applying to the hair before, during, or after shaping of a hairstyle of said hair a composition according to claim 17, wherein said composition provides a reshapable effect

27. A method of reshaping hair, comprising:

- (1) applying to the hair before, during, or after the initial shaping of the hairstyle of a composition according to claim 17, wherein said composition provides a reshapable effect, and
- (2) thereafter shaping the hairstyle at least once, wherein no additional composition or heat is added.

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000